

DERWENT-ACC-NO: 2000-398757  
DERWENT-WEEK: 200119  
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TITLE: Method for improving water-resistant property of silicon nitride thin film doped with fluorine - by NH3 plasma post-treatment for moisture isolation and sustaining low dielectric constant

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PRIORITY-DATA: 1997TW-0115583 (October 22, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
TW 368687 A	September 1, 1999	N/A	000	H01L 021/205

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
TW 368687A	N/A	1997TW-0115583	October 22, 1997

INT-CL (IPC): H01L021/205

ABSTRACTED-PUB-NO: TW 368687A

BASIC-ABSTRACT: A kind of method for improving the water-resistant property of

silicon nitride thin film doped with fluorine which is to apply the NH3 plasma post-treatment on the silicon oxide deposition thin film doped with fluorine under the circumstances enough for the nitrogenizing on the surface of thin film but generally sustaining the original structure so as to isolate the moisture and let the thin film sustain low dielectric constant for a long time.

TITLE-TERMS:

METHOD IMPROVE WATER RESISTANCE PROPERTIES SILICON NITRIDE  
THIN FILM DOPE  
FLUORINE PLASMA POST TREAT MOIST ISOLATE SUSTAINED LOW  
DIELECTRIC CONSTANT

DERWENT-GLASS: L03 U11

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CPI-CODES: L04-C12B; L04-C26;

EPI-CODES: U11-C05B5; U11-C05B9;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1713U; 1777U

SECONDARY-ACC-NO:

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